Claims

1- A fabric care composition comprising:

i)- a nitrogen containing compound selected from a polyamino-functional polymer, a dye fixing agent, and mixtures thereof, and

ii)- a scum reducing agent selected from a water-soluble cationic surface active agent; a polyoxyalkylene alkyl amine surface active agent, and mixtures thereof; with the proviso that when the sole nitrogen containing compound is a polyamino-functional polymer, the polymer is present in amounts greater than 1% by weight.

2-A composition according to Claim 1, wherein said water-soluble cationic surface active agent is of formula:

$$[R^1N^+R3]\ X^-$$

wherein R^1 is C_{10}-C_{22} hydrocarbon group, or the corresponding ester linkage interrupted group with a C_1-C_4 alkylene group between the ester linkage and the N, each R is a C_1-C_4 alkyl or substituted alkyl, or hydrogen, and the counterion X^- is a softener compatible anion.

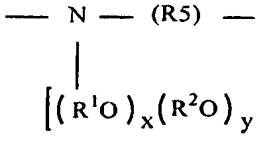
3-A composition according to Claim 2, wherein the water-soluble cationic surfactant is selected from N,N dimethyl-N-(2-hydroxyethyl)-N-dodecyl/tetradecyl ammonium bromide, myristoyl choline ester quaternary methylammonium halides, lauroyl choline ester methylammonium halides, cocoyl choline ester quaternary methylammonium halides, and mixtures thereof.

4- A composition according to ~~any one of~~ Claims ~~1~~-3, wherein the polyoxyalkylene alkyl amine surface active agent has the formula:

$$R - A_q - N - \left[(R^1O)_x (R^2O)_y R^3 \right]_m$$
$$\Big|$$
$$(R^4)_n$$

wherein R is selected from C_7-C_{21} linear alkyl, C_7-C_{21} branched alkyl, C_7-C_{21} linear alkenyl, C_7-C_{21} branched alkenyl, and mixtures thereof; R^1 is ethylene; R^2 is selected from C_3-C_4 linear alkyl, C_3-C_4 branched alkyl, and mixtures thereof; R^3 is selected from hydrogen, C_1-C_4 linear alkyl, C_3-C_4 branched alkyl, and mixtures

thereof; R^4 is selected from hydrogen, C_1-C_4 linear alkyl, C_3-C_4 branched alkyl, and



mixtures thereof; A is

R^5 is selected from -$[(R^1O)_x(R^2O)_y]$ unit, C_1-C_{16} linear alkyl, C_1-C_{16} branched alkyl, C_1-C_{16} linear alkenyl, C_1-C_{16} branched alkenyl, and mixtures thereof;

wherein the index m is 1 or 2, the index n is 0 or 1, provided that when m is equal to 1, n is equal to 1; and when m is 2 n is 0;

wherein the index x is from 0 to about 50, preferably from 1 to 25,

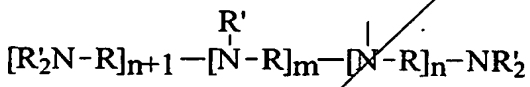
wherein the index y is from 0 to about 10;

wherein the index q is 0 or 1.

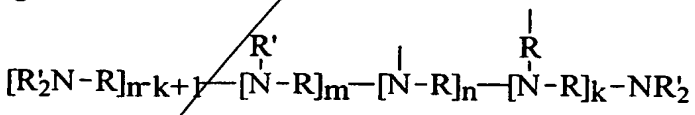
5-A composition according to Claim 4, wherein said index x is from 1 to 25.

6- A composition according to ~~either one of~~ Claim ~~4 or~~ 5, wherein said index m is equal to 2 and n is equal to 0.

7-A composition according to ~~any one of~~ Claims ~~1-6~~, wherein said polymer comprises a polyamine backbone corresponding to the formula:

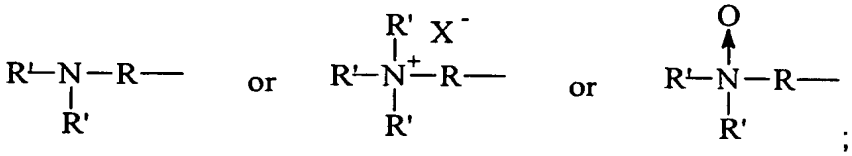


having a polyamine formula $V_{(n+1)}W_mY_nZ$ or a polyamine backbone corresponding to the formula:

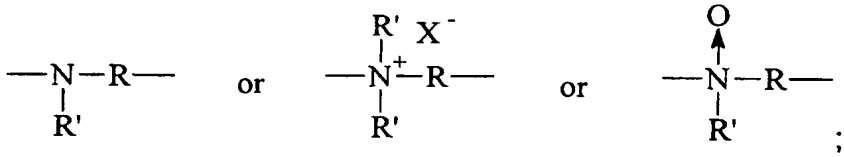


having a polyamine formula $V_{(n-k+1)}W_mY_nY'_kZ$, wherein k is less than or equal to n, said polyamine backbone has a molecular weight greater than 200 daltons, wherein

i) V units are terminal units having the formula:

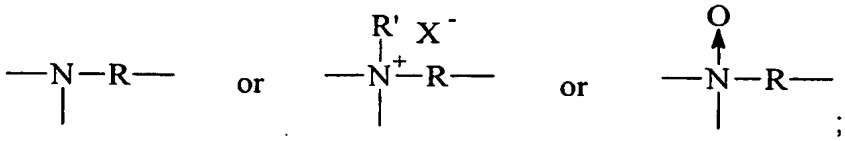


ii) W units are backbone units having the formula:



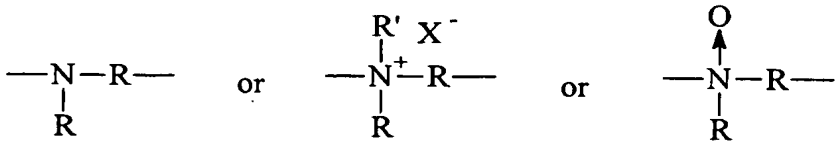
;

iii) Y units are branching units having the formula:

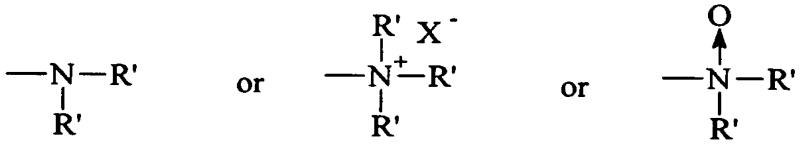


; and

iv) Y' units are branch point for a backbone or branch ring having the formula:



v) Z units are terminal units having the formula:



;

wherein backbone linking R units are selected from the group consisting of C_2-C_{12} alkylene, C_4-C_{12} alkenylene, C_3-C_{12} hydroxyalkylene, C_4-C_{12} dihydroxy-alkylene, C_8-C_{12} dialkylarylene, $-(R^1O)_xR^1-$, $-(R^1O)_xR^5(OR^1)_x-$, $-(CH_2CH(OR^2)CH_2O)_z(R^1O)_yR^1(OCH_2CH(OR^2)CH_2)_w-$, $-C(O)(R^4)_rC(O)-$, $-CH_2CH(OR^2)CH_2-$, and mixtures thereof; wherein R^1 is selected from the group consisting of C_2-C_6 alkylene and mixtures thereof; R^2 is selected from the group consisting of hydrogen, $-(R^1O)_xB$, and mixtures thereof; R^4 is selected from the group consisting of C_1-C_{12} alkylene, C_4-C_{12} alkenylene, C_8-C_{12} arylalkylene, C_6-C_{10} arylene, and mixtures thereof; R^5 is selected from the group consisting of C_1-C_{12} alkylene, C_3-C_{12} hydroxyalkylene, C_4-C_{12} dihydroxy-alkylene, C_8-C_{12} dialkylarylene, -C(O)-, $-C(O)NHR^6NHC(O)-$, $-R^1(OR^1)-$, $-C(O)(R^4)_rC(O)-$, $-CH_2CH(OH)CH_2-$, $-CH_2CH(OH)CH_2O(R^1O)_yR^1OCH_2CH(OH)CH_2-$, and mixtures thereof; R^6 is selected from the group consisting of C_2-C_{12} alkylene or C_6-C_{12} arylene; R' units are selected from the group consisting of hydrogen, C_1-C_{22} alkyl, C_3-C_{22} alkenyl, C_7-C_{22} arylalkyl, C_2-C_{22} hydroxyalkyl, $-(CH_2)_pCO_2M$, $-(CH_2)_qSO_3M$, $-CH(CH_2CO_2M)CO_2M$, $-(CH_2)_pPO_3M$, $-(R^1O)_xB$,

$-C(O)R^3$, and mixtures thereof; B is selected from the group consisting of hydrogen, C_1-C_6 alkyl, $-(CH_2)_qSO_3M$, $-(CH_2)_pCO_2M$, $-(CH_2)_q(CHSO_3M)CH_2SO_3M$, $-(CH_2)_q-(CHSO_2M)CH_2SO_3M$, $-(CH_2)_pPO_3M$, $-PO_3M$, and mixtures thereof; R^3 is selected from the group consisting of C_1-C_{18} alkyl, C_7-C_{12} arylalkyl, C_7-C_{12} alkyl substituted aryl, C_6-C_{12} aryl, and mixtures thereof; M is hydrogen or a water soluble cation in sufficient amount to satisfy charge balance; X is a water soluble anion; m has the value from 2 to 700; n has the value from 0 to 350; p has the value from 1 to 6, q has the value from 0 to 6; r has the value of 0 or 1; w has the value 0 or 1; x has the value from 1 to 100; y has the value from 0 to 100; z has the value 0 or 1.

8-A composition according to ~~any one of~~ Claims ~~1-7~~, wherein said dye fixing agent is a cellulose reactive dye fixing agent.

9-A composition according to ~~any one of~~ Claim 1-~~8~~, wherein the nitrogen containing compound is of from 1% to 25% by weight~~, most preferably from 1% to 10% active by weight~~ of the composition.

10- Use of a surface active agent in a composition comprising a nitrogen containing compound selected from a polyamino-functional polymer, a dye fixing agent, and mixtures thereof, for reducing or preventing the formation of scum on fabrics or washing machine parts contacted with the composition.

11-Use according to Claim 9, wherein said surface active agent is selected from a water-soluble cationic surface active agent; a polyoxyalkylene alkyl amine surface active agent, a water-insoluble softening compound, and mixtures thereof.